

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027483

Luminaire Tested: S125DIP-B1090D610UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027483
REPORT IS A COMBINATION OF REPORTS P1001458 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D610UB50-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

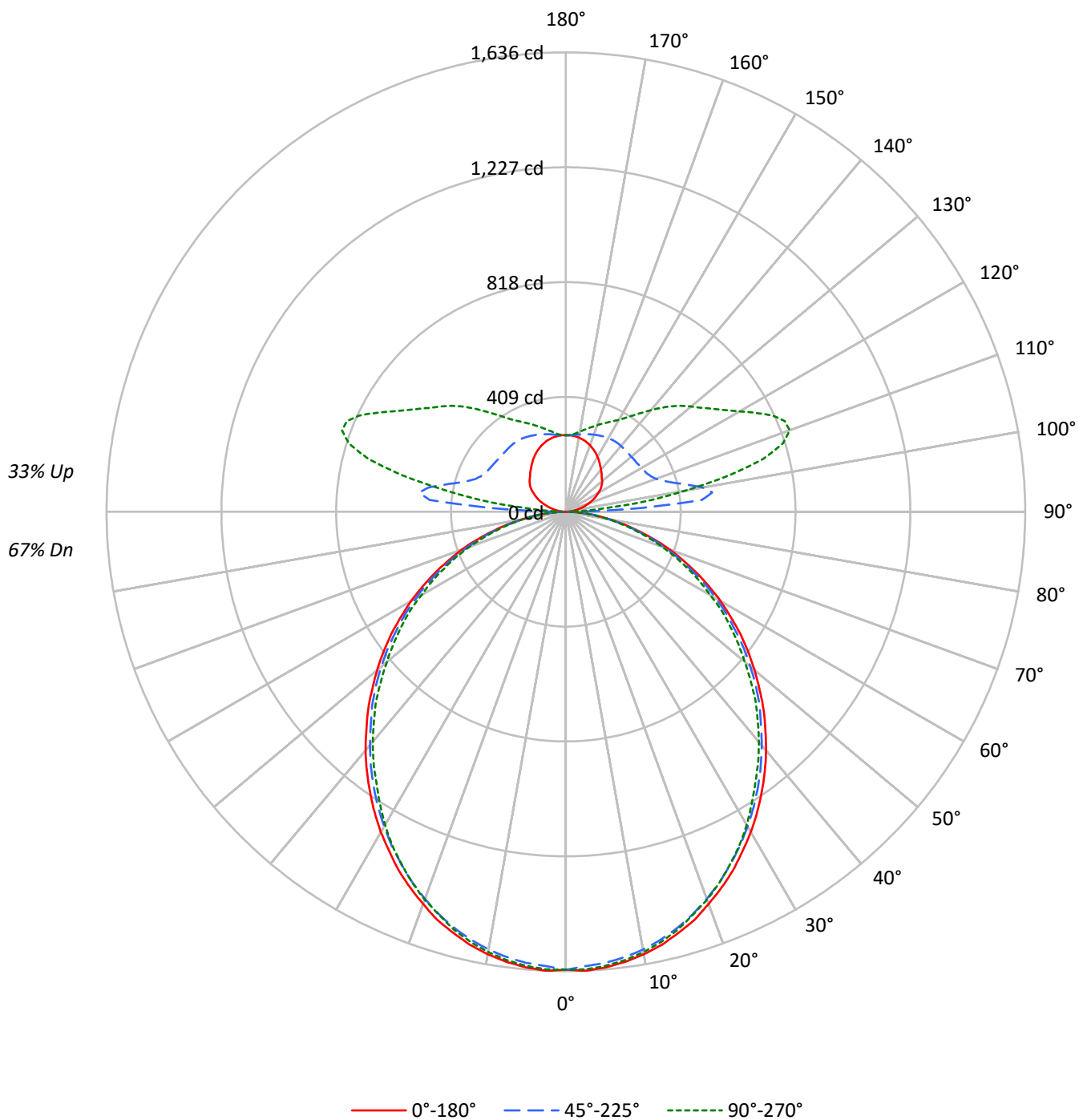
Lumens per Lamp: N/A
Luminaire Lumens: 6298.2 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1027483

CATALOG NUMBER: S125DIP-B1090D610UB50-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67			
1	102	97	93	89	96	92	88	85	82	79	76	72	70	68	64	62	61	57			
2	93	85	78	73	87	80	75	70	71	67	63	63	60	57	56	53	51	47			
3	84	75	67	61	79	71	64	58	63	58	53	56	52	48	50	46	44	40			
4	77	66	58	52	73	63	55	49	56	50	45	50	45	41	44	41	37	34			
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30			
6	65	53	45	39	62	50	43	37	45	39	34	41	35	32	36	32	29	26			
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23			
8	56	44	36	30	53	42	34	29	38	31	27	34	29	25	30	26	23	21			
9	53	40	32	27	50	38	31	26	35	29	24	31	26	23	28	24	21	19			
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	26	22	19	17			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10450	10450	10450
5°	10450	10207	10227
10°	10364	9973	9942
15°	10228	9693	9606
20°	10043	9369	9222
25°	9846	9015	8810
30°	9608	8646	8375
35°	9354	8259	7889
40°	9091	7851	7457
45°	8806	7453	6997
50°	8493	7001	6462
55°	8183	6503	5969
60°	7813	5978	5396
65°	7372	5370	4804
70°	6920	4671	4121
75°	6166	3846	3332
80°	5254	2873	2451
85°	4059	1700	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8806 cd/sqm

TEST NUMBER: P1027483

CATALOG NUMBER: S125DIP-B1090D610UB50-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	2.4
10°-20°	434.7	6.9
20°-30°	641.8	10.2
30°-40°	748.8	11.9
40°-50°	752.0	11.9
50°-60°	660.2	10.5
60°-70°	491.7	7.8
70°-80°	280.8	4.5
80°-90°	82.2	1.3
90°-100°	205.3	3.3
100°-110°	426.5	6.8
110°-120°	398.3	6.3
120°-130°	322.3	5.1
130°-140°	259.0	4.1
140°-150°	195.5	3.1
150°-160°	137.6	2.2
160°-170°	81.1	1.3
170°-180°	26.4	0.4
0°-30°	1230.4	19.5
0°-40°	1979.2	31.4
0°-60°	3391.4	53.8
0°-90°	4246.1	67.4
90°-120°	1030.2	16.4
90°-150°	1807.0	28.7
90°-180°	2052.0	32.6
0°-180°	6298.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1628	1626	1613	1624	1623	155
15°	1552	1548	1534	1541	1541	438
25°	1409	1403	1386	1388	1384	648
35°	1217	1212	1194	1187	1177	761
45°	996	991	976	960	956	767
55°	759	755	737	725	716	677
65°	512	510	496	484	479	508
75°	272	270	263	259	254	290
85°	71	72	72	71	68	78
90°	0	5	9	12	13	6
95°	18	54	487	221	129	19
105°	62	87	398	785	728	65
115°	111	134	320	690	811	109
125°	154	180	307	549	639	137
135°	180	217	304	460	531	140
145°	210	240	306	381	419	132
155°	240	258	298	337	351	110
165°	262	269	286	303	308	74
175°	272	272	274	278	276	26
180°	273	273	273	273	273	

TEST NUMBER: P1027483

CATALOG NUMBER: S125DIP-B1090D610UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.0	1631.0	1631.0	1631.0	1631.0
2.5°	1636.1	1632.3	1619.4	1632.3	1631.0
5°	1628.4	1625.8	1612.9	1624.5	1623.2
7.5°	1616.8	1614.2	1600.0	1611.6	1610.3
10°	1600.0	1597.4	1583.2	1593.5	1592.3
12.5°	1579.4	1574.2	1561.3	1569.0	1569.0
15°	1552.3	1548.4	1534.2	1540.6	1540.6
17.5°	1523.9	1517.4	1503.2	1511.0	1504.5
20°	1486.4	1483.9	1467.1	1476.1	1469.7
22.5°	1449.0	1443.9	1428.4	1433.5	1429.7
25°	1409.0	1402.6	1385.8	1388.4	1384.5
27.5°	1362.6	1358.7	1341.9	1343.2	1339.4
30°	1317.4	1313.5	1294.2	1291.6	1287.7
32.5°	1268.4	1261.9	1245.2	1240.0	1232.3
35°	1216.8	1211.6	1193.5	1187.1	1176.8
37.5°	1163.9	1157.4	1140.6	1131.6	1125.2
40°	1109.7	1103.2	1085.2	1073.5	1069.7
42.5°	1051.6	1046.4	1028.4	1018.1	1011.6
45°	996.1	991.0	975.5	960.0	956.1
47.5°	935.5	936.8	917.4	901.9	892.9
50°	877.4	873.5	858.1	841.3	832.3
52.5°	818.1	815.5	798.7	784.5	774.2
55°	758.7	754.8	736.8	725.2	716.1
57.5°	695.5	694.2	678.7	663.2	659.4
60°	636.1	631.0	616.8	603.9	594.8
62.5°	574.2	570.3	558.7	544.5	538.1
65°	512.3	509.7	495.5	483.9	478.7
67.5°	451.6	446.5	436.1	425.8	423.2
70°	394.8	388.4	376.8	369.0	363.9
72.5°	332.9	329.0	322.6	313.5	308.4
75°	272.3	269.7	263.2	259.4	254.2
77.5°	215.5	214.2	210.3	207.7	203.9
80°	162.6	162.6	160.0	158.7	156.1
82.5°	116.1	113.5	113.5	111.0	111.0
85°	71.0	72.3	72.3	71.0	68.4
87.5°	34.8	34.8	33.5	33.5	31.0
90°	0.5	5.0	8.8	11.6	12.6
92.5°	8.2	45.1	219.3	58.6	40.7
95°	18.1	53.6	487.0	221.0	129.2
97.5°	28.0	58.0	526.1	399.1	283.1
100°	38.5	66.6	496.4	564.0	428.8
102.5°	50.0	76.2	444.2	703.7	591.5
105°	62.1	86.9	398.5	784.7	728.4
107.5°	73.7	98.2	364.5	807.5	810.8
110°	86.3	110.0	341.9	785.8	848.2



TEST NUMBER: P1027483

CATALOG NUMBER: S125DIP-B1090D610UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	98.9	121.8	328.7	740.4	843.8
115°	111.0	133.8	319.9	689.7	811.4
117.5°	122.0	146.2	315.0	643.4	762.4
120°	133.0	158.0	311.7	604.7	715.2
122.5°	144.6	169.6	308.9	573.6	673.4
125°	153.9	180.4	306.7	548.6	639.3
127.5°	161.6	190.8	305.6	527.2	608.0
130°	168.8	200.6	304.5	505.4	583.2
132.5°	174.3	209.4	304.5	482.1	558.5
135°	180.3	216.8	304.5	459.8	531.0
137.5°	188.0	223.7	305.1	436.4	502.4
140°	194.6	229.5	305.6	415.0	472.2
142.5°	202.3	235.0	306.2	396.6	444.2
145°	210.0	240.5	305.6	380.7	418.9
147.5°	218.2	245.4	304.5	367.0	396.3
150°	225.4	249.8	302.9	355.6	378.2
152.5°	233.1	254.2	300.7	346.0	363.9
155°	239.7	257.8	297.9	336.7	351.3
157.5°	245.7	261.4	295.2	327.9	339.7
160°	251.8	264.2	292.4	319.1	328.2
162.5°	256.7	266.9	289.1	311.2	317.7
165°	261.7	268.8	285.8	303.2	307.8
167.5°	265.0	269.9	282.6	295.7	298.5
170°	268.3	271.3	279.8	288.6	290.2
172.5°	270.5	271.8	276.5	282.8	282.6
175°	272.1	272.1	274.3	277.6	276.5
177.5°	273.2	272.1	272.7	274.3	272.7
180°	272.7	272.7	272.7	272.7	272.7

(END OF REPORT)